551 Trigger

ATTACHMENT A AGRIUM KNO FACILITY

CONTINUOUS RELEASE-EMERGENCY RESPONSE NOTIFICATION SYSTEM REPORT



Agrium Attachment TO LOT - ENVOTIOS								
SECTION I: GENERAL INFORMATION CR-ERNS Number: 44607								
SECTION I. GENERAL INFORMATION CR-ERIS Number: 4400/								
Date of Init	al Release:		Date of Ini	itial Call to NRC: 10/23/90				
Type of Rep	ort: Indicate below the	e type of report you are subm	itting.					
		First Anniversary	Written Noti	fication Written Notification				
Initial W	Initial Written Notification Follow-up X of a Change to of a Change to							
		Report	Initial Notific	1 1				
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				d herein are continuous and stable in				
	te under the definitions arrent to the best of my		0.4(a)(2)(111) and	I that all submitted information is				
dound and	minute with deat of may		M.L. Nugen	t, Plant Manager				
	, ($A \wedge^{Name}$	e and Position				
8	13/79	$\overline{}$	III was	3 en				
	Date		.,	ignature				
D A TO								
Part A. Faci	<u>lity or Vessel Info</u>	rmation						
Name of Facil	tv or Vessel Ala	ska Nitrogen Products I	LC					
	- -	nai Plant						
Person	<u> </u>							
in Charge	Name of Person in Ch	arge M. L. Nugent						
of Facility or Vessel	Position Plant Manager							
UL V COSUL	Telephone No. (907)	776-8121	Alternate Te	lephone No. () None				
Facility								
Address or Vessel	Street Mile 21 Spur	Hignway	County	y Kenai Peninsula Borough				
Port of	City Kenai	City Kenai State AK Zip Code 99611						
Registration								
Dun and Brad	street Number for F	acility 092876390						
Facility/Vesse	Latitude Deg	N <u>60</u> Min <u>40</u> S	ec <u>22</u>	Vessel LORAN Coordinates				
Location	Longitude Deg	W <u>151</u> Min <u>22</u> S	ec <u>36</u>					
Part B. Population Information								
Population				ne-mile radius of your facility or vessel				
Density	(Indicate by placing an '	"X" in the appropriate blank l	telow.) 1 = 500 nersons	more than 1000 persons				
	51 - 100	ersons 10 persons 50	1 - 1000 persons	more than 1000 persons				
Sensitive	Sensitive	Populations or Ecosystem	s	Distance and direction from facility				
Populations		tals, wetlands, wildlife pre						
and Teogystems		-						
Ecosystems Within one	NONE	•						
Mile Radius	<u> </u>							

SECTION III: **HAZARDOUS** SUBSTANCE

INFORMATION

CR-ERNS Number

44607

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name	of Haz	ardons	s Substance:	Ammonia
I VALUE I		aruvu	s Dubstance.	AIIIIIIUIIII

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Sources(s)

Upper Bound of the Normal Range of the Release (specify lbs., kg, or Ci)

PLEASE SEE ATTACHMENT 'A' FOR THIS INFORMATION.

TOTAL - SSI trigger for this hazardous substance release*:

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

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Alaska Nitrogen Products LLC Revised 03/23/00

	All quantities in lbs:/day		./day	
Source			Max.	Comments on Max
Plant 1: CO2 Vent (D-107)	20	8	48	
Plant 1: Dearator (F105)	22	22	22	
Plant 1: Fat Flasher Vent (F-113)	6	6	6	
Plant 1: Wet Reformed Gas Vent (F-130)	0	0	6,200	Startup
Plant 2: Prill Tower (P-406)	1,160	700	1,200	
Plant 2: Atmospheric Absorber (D-405)	0	0	1,000	Scrubber outage
Plant 2: Tank Vent Scrubber (D-406)	0	0	1,00 0	Scrubber outage
Plant 2: Crystallizer Hotwell (F-410)	5	1	10	
Plant 2: Urea Surge Tank (F-409)	0	0	8	
Plant 2: Vent Scrubber (D-407)	0	0	180	
Plant 2: NH3 Storage Tank Inerts Vent				
Scrubber (D-408)	21	0	100	
Plant 1 /2: Vent Flare/Stack (B-402)	24	6	4,70 0	Flare outage
Plant 1 /2: Emergency Flare (B-403)	120	0	700	
Plant 3: Oil/Water Separator Tank	5	0	1,500	Occurs intermittently
Plant 4: Dearator (F-205)	12	12	12	
Plant 4: Fat Flasher (H-269)	12	12	12	
Plant 4: Process Condensate surge drum				
vent (F-263)	120	120	120	
Plant 4: H2 Vent Stack (C-200)	0	0	1,000	Startup
Plant 4: Process Condensate Stripper				
Steam Knock-out Drum (H-260)	0	0	6,200	Plant 4 reformer outage
Plant 4: Ammonia Drain Tank (F-287)	0	0	165	Occurs only during pump maintenance
Plant 5: Granulator Scrubber (C-560A/B)	720	680	1,100	
		-		
Plant 5: Atmospheric Absorber (D512/D515)	0	0	200	
Plant 5: Vent Scrubber (D511)	500	0	1,000	
Plant 5: Exchanger (E-535)	60	0	240	
Plant 5: HP Scrubber (E-503)	20	20	20	
Plant 4/5: Vent Flare/Stack (B-502)	12	0	5,400	Flare outage
Plant 4/5: Emergency Flare (B-501)	2,600	0	7,200	-
Fugitives: Valves, Pump Seals, Flanges	400	400	400	
Fugitives: Cooling Towers (2)	4	0	80	
Fugitives: Urea Warehouses	20	10	100	
TOTAL (pounds/day)	5,863	1,997	€ 39,923 🤄	See footnote 1
TOTAL (tons/day)	3	1.0	20.0	See footnote 1

¹ The maximum is erroneously high because it assumes that simultaneously Plant 1 and 4 are in startup, scrubbers D405 and D406 are down for maintenance, and that both flares are down for maintenance. To obtain a more realistic upper bound of the normal range, assume that the special causes occur individually. The maximum quantity released from a special cause is 6,200 lbs/day from either a plant startup or reformer outage. Therefore, the upper bound of the normal range, with only one special cause, is ...

9.5 tpd
Therefore, the normal reported range for Low

Lower Range (tpd) 2.9

routine and cont. releases of ammonia is:

Upper Range (tpd) 9.5

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		4		
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